

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A wide dispersion speaker system comprising:
a cone ~~type~~ speaker unit; and
a restricting element, wherein
the cone ~~type~~ speaker unit has a diaphragm,
the restricting element is configured to cover the diaphragm from forward,
the restricting element is provided with a center hole and a peripheral hole,
the center hole is positioned forward relative to a center section of the diaphragm,
the peripheral hole is positioned radially outward relative to the center hole,
a sum of an area of the center hole and an area of the peripheral hole is smaller than
an area of the diaphragm,
the area of the center of the center hole is not less than 20% and not more than 50% of
the area of the diaphragm,
the area of the peripheral hole is not less than 1% and not more than 25% of the area
of the center hole,
the restricting element has an annular sound travel inhibiting portion positioned
radially outward relative to the center hole and radially inward relative to the peripheral hole,
and
an outer end in a radial direction of the sound travel inhibiting portion is positioned at
a substantially middle point between an outer end in the radial direction of the center hole and
an outer end in the radial direction of the peripheral hole, or positioned radially outward
relative to the substantially middle point.
2. (Original) The wide dispersion speaker system according to claim 1,
wherein the outer end in the radial direction of the peripheral hole is positioned in the vicinity
of a peripheral edge portion of the diaphragm in the radial direction.

3. (Previously presented) The wide dispersion speaker system according to claim 1, wherein the peripheral hole is formed to surround an entire periphery of the center hole.

4. (Previously presented) The wide dispersion speaker system according to claim 1, wherein the peripheral hole is one of a plurality of peripheral holes which are configured to be distributed to surround the entire periphery of the center hole.

5. (Currently amended) The wide dispersion speaker system according to claim 1, wherein the peripheral hole is formed to surround the center hole in an angular range of not less than 180 degrees around a center axis of the cone ~~type~~ speaker unit.

6. (Currently amended) The wide dispersion speaker system according to claim 1, wherein the peripheral hole is one of a plurality of peripheral holes which are configured to be distributed to surround the center hole in an angular range of not less than 180 degrees around a center axis of the cone ~~type~~ speaker unit.

7. (Currently amended) The wide dispersion speaker system according to claim 5, wherein the peripheral hole is configured not to be formed in an angular range of not less than 45 degrees around the center axis of the cone ~~type~~ speaker unit.

8. (Previously presented) The wide dispersion speaker system according to claim 4, wherein the peripheral hole is a slit hole extending in the radial direction.

9. (Original) The wide dispersion speaker system according to claim 8, wherein the peripheral hole has a slit width smaller than a depth of the peripheral hole.

10. (Currently amended) The wide dispersion speaker system according to claim 1, wherein the peripheral hole is disposed non-symmetrically with respect to a center axis of the cone ~~type~~ speaker unit.

11. (Previously presented) The wide dispersion speaker system according to claim 1, wherein a diffuser is mounted forward relative to the center hole.

12. – 16. (Canceled)

17. (Previously presented) The wide dispersion speaker system according to claim 2, wherein the peripheral hole is formed to surround an entire periphery of the center hole.

18. (Previously presented) The wide dispersion speaker system according to claim or 2, wherein the peripheral hole is one of a plurality of peripheral holes which are configured to be distributed to surround the entire periphery of the center hole.

19. (Currently amended) The wide dispersion speaker system according to claim 2, wherein the peripheral hole is formed to surround the center hole in an angular range of not less than 180 degrees around a center axis of the cone ~~type~~ speaker unit.

20. (Currently amended) The wide dispersion speaker system according to claim 2, wherein the peripheral hole is one of a plurality of peripheral holes which are configured to be distributed to surround the center hole in an angular range of not less than 180 degrees around a center axis of the cone ~~type~~ speaker unit.

21. (Currently amended) The wide dispersion speaker system according to claim 6, wherein the peripheral hole is configured not to be formed in an angular range of not less than 45 degrees around the center axis of the cone ~~type~~ speaker unit.

22. (Previously presented) The wide dispersion speaker system according to claim 6, wherein the peripheral hole is a slit hole extending in the radial direction.

23 – 28. (Canceled)

29. (New) A wide dispersion speaker system comprising:
a cone speaker unit having a central axis and including a diaphragm having a conical portion, the diaphragm having an area; and
a restricting element substantially covering a forward portion of the diaphragm;
a center hole formed in the restricting element and positioned over a center section of the diaphragm and having an outer boundary and an area;
the peripheral hole positioned radially outward relative to the center hole and having an area, the area of the peripheral hole less than the area of the center hole, the peripheral hole having an outer boundary;
the area of the center hole plus the area of the peripheral hole smaller than the area of the diaphragm;
the area of the center hole less than the area of the diaphragm;
the peripheral hole and the center hole cooperating to form an annular sound travel inhibiting portion surrounding the center hole and having a portion positioned between the center hole and the peripheral hole; and
the outer boundary of the sound travel inhibiting portion positioned at least halfway between the central axis and the outer boundary of the peripheral hole.

30. (New) The system of claim 29, wherein the area of the peripheral hole is between 1% and 25% of the area of the center hole.

31. (New) The system of claim 30, wherein the area of the center hole is between 20% and 50% of the area of the diaphragm.

32. (New) The system of claim 30, wherein the peripheral hole surrounds at least 50% of the center hole.

33. (New) The system of claim 30, wherein the peripheral hole comprises only a single arcuate slot.

34. (New) The system of claim 33, wherein the peripheral hole extends continuously between 180° and 315° about the center hole.